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Entry 1 of 3

File: USPT

Aug 31, 1999

DOCUMENT-IDENTIFIER: US 5945963 A

TITLE: Dielectrically loaded antenna and a handheld radio communication unit including such an antenna

ABPL:

A miniature antenna for operation at frequencies in excess of 200 MHz has a ceramic core in the form of a cylindrical rod having a relative dielectric constant greater than 5. Plated on the outer surfaces of the core is an antenna element structure comprising a single pair of oppositely disposed helical elements having a common central axis coincident with the central axis of the core. At a distal end of the antenna, they are connected to a coaxial feeder structure passing axially through the core, and at their proximal ends they are connected to the rim of a cylindrical trap conductor which, at the proximal end of the core is coupled to the screen of the feeder structure. At the operating frequency, the antenna behaves as a loop, the radiation response having nulls directed generally perpendicularly on each side of a plane containing the central axis of the core and the connections of the 6 helical elements with the feeder structure and with the conductive sleeve. The antenna is intended primarily for a handheld communication unit such as a cellular or cordless telephone handset, the presence of the nulls in the radiation pattern reducing radiation into the user's head.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 5859621 A

Entry 2 of 3

File: USPT

Jan 12, 1999

DOCUMENT-IDENTIFIER: US 5859621 A
TITLE: Antenna

ABPL:

An antenna for use at frequencies of 200 MHz and upwards has a cylindrical ceramic core with a relative dielectric constant of at least 5, and pairs of helical elements extending from a feed point at one end of the core to the rim of a conductive sleeve adjacent the other end of the core, the sleeve acting as a trap for isolating from ground currents circulating in the helical elements. To yield helical elements of different lengths, the sleeve rim follows a locus which deviates from a plane perpendicular to the core axis in that it describes a zig-zag path. The helical elements form simple helices with approximately balanced radiation resistances.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5854608 A

Entry 3 of 3

File: USPT

Dec 29, 1998

DOCUMENT-IDENTIFIER: US 5854608 A
TITLE: Helical antenna having a solid dielectric core

ABPL:

An antenna for use at UHF and upwards has a cylindrical ceramic core with a relative dielectric constant of at least 5. A three-dimensional radiating element structure, consisting of helical antenna elements on the cylindrical surface of the core and connecting radial elements on a distal end face of the core, is formed by conductor tracks plated directly on the core surfaces. At the distal end face the elements are connected to an axially located feed structure in a plated axial passage of the core. The antenna elements are grounded on a plated sleeve covering a proximal part of the core which, in conjunction with the feeder structure, forms an integral balun for matching to an unbalanced feeder.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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Terms	Documents
core same ceramic same dielectric constant same heli\$	3

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including document number

[3](#)**Display Format:** [KWIC](#)[Change Format](#)

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☐ 1. Document ID: US 5945963 A
Entry 1 of 3 File: USPT Aug 31, 1999
US-PAT-NO: 5945963
DOCUMENT-IDENTIFIER: US 5945963 A
TITLE: Dielectrically loaded antenna and a handheld radio communication unit including such an antenna
DATE-ISSUED: August 31, 1999
INT-CL: [6] H01 Q 1/36
US-CL-ISSUED: 343/895; 343/702
US-CL-CURRENT: 343/895; 343/702
FIELD-OF-SEARCH: 343/702, 343/742, 343/866, 343/895, 343/821, 343/741

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 5859621 A
Entry 2 of 3 File: USPT Jan 12, 1999
US-PAT-NO: 5859621
DOCUMENT-IDENTIFIER: US 5859621 A
TITLE: Antenna
DATE-ISSUED: January 12, 1999
INT-CL: [6] H01 Q 1/36
US-CL-ISSUED: 343/895; 343/821, 343/859
US-CL-CURRENT: 343/895; 343/821, 343/859
FIELD-OF-SEARCH: 343/7MS, 343/702, 343/821, 343/850, 343/853, 343/859, 343/860, 343/895, 343/865

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5854608 A

Entry 3 of 3

File: USPT

Dec 29, 1998

US-PAT-NO: 5854608

DOCUMENT-IDENTIFIER: US 5854608 A

TITLE: Helical antenna having a solid dielectric core

DATE-ISSUED: December 29, 1998

INT-CL: [6] H01 Q 1/36

US-CL-ISSUED: 343/895; 343/821

US-CL-CURRENT: 343/895; 343/821

FIELD-OF-SEARCH: 343/702, 343/895, 343/821, 29/600

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Image
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Terms	Documents
core same ceramic same dielectric constant same heli\$	3

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